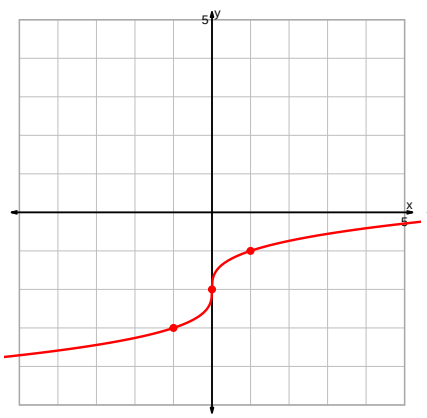
NAME: DATE:

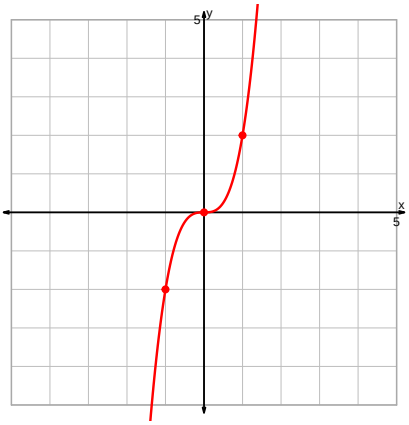
Unit-2 Reduced Mastery Assessment (version 305)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

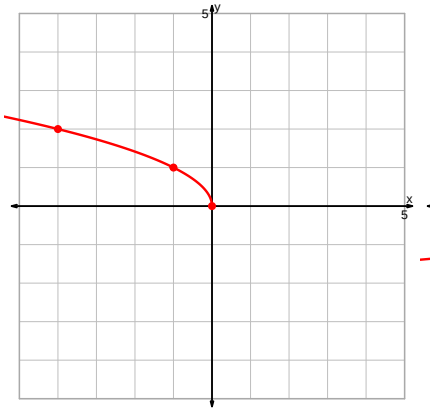
$y = \sqrt[3]{x} - 2$

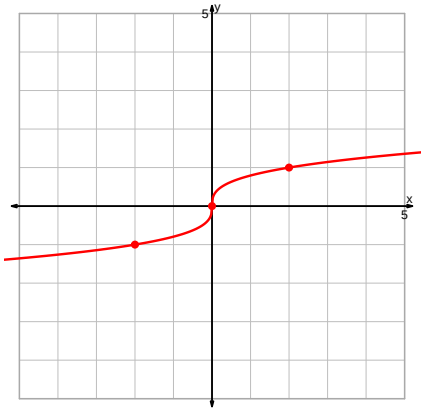




$y = 2 \cdot x^3$

$y = \sqrt{-x}$

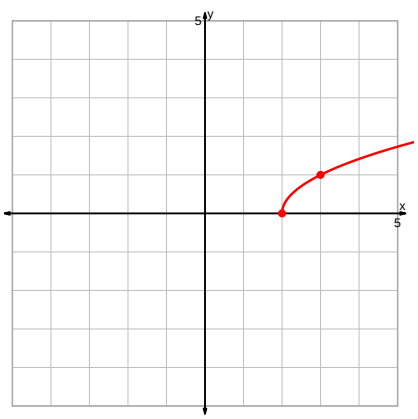


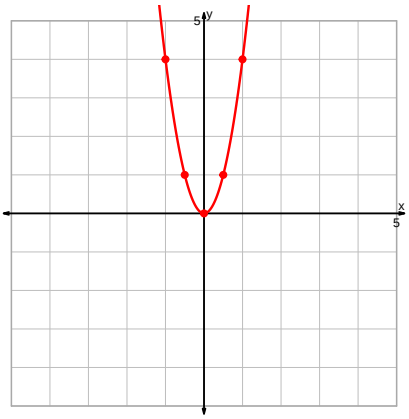


$y = \sqrt[3]{\frac{x}{2}}$

Question 2 continued. . .

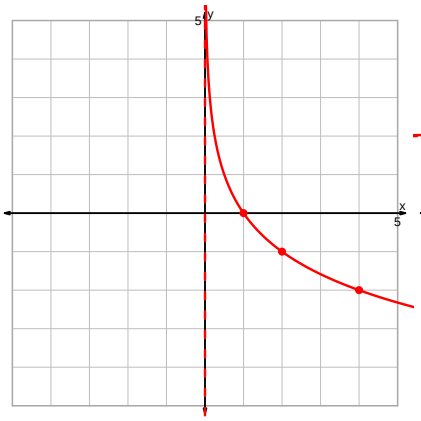
$y = \sqrt{x-2}$

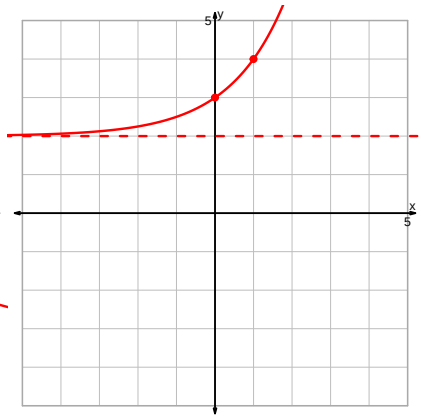




$y = (2x)^2$

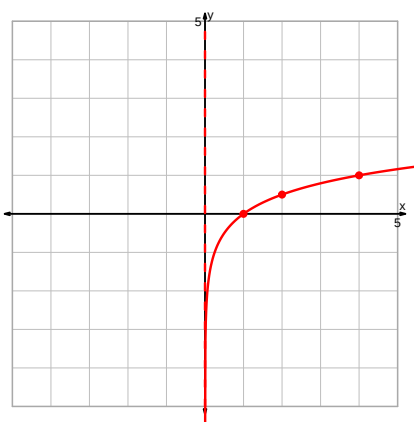
$y = -\log_2(x)$

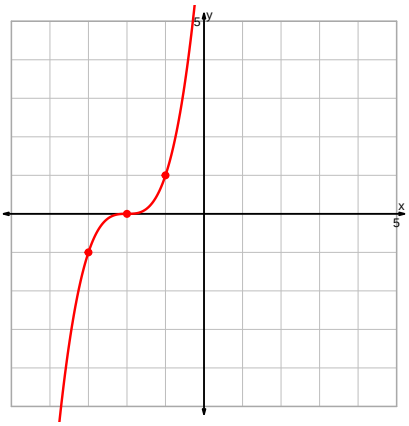




$y = 2^x + 2$

$y = \dfrac{\log_2(x)}{2}$

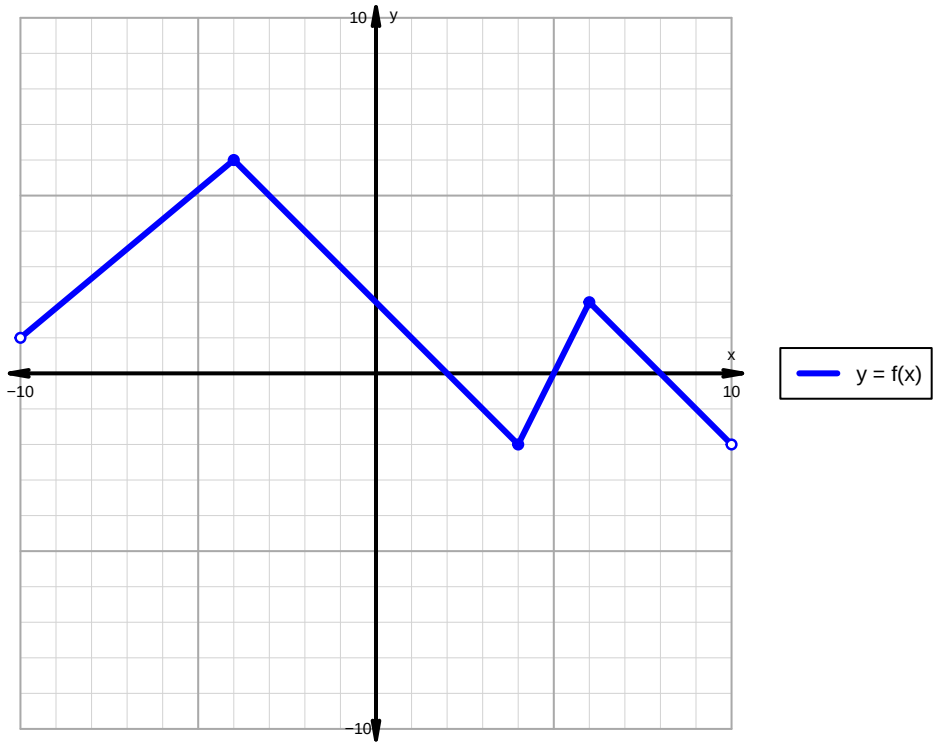




$y = (x+2)^3$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-10, 2) \cup (5, 8)$
Negative	$(2, 5) \cup (8, 10)$
Increasing	$(-10, -4) \cup (4, 6)$
Decreasing	$(-4, 4) \cup (6, 10)$
Domain	$(-10, 10)$
Range	$(-2, 6)$